

Storen Giant Ragweed Control Comparisons

Janesville, WI 2023

Trial Information

Trial Sponsor(s): Syngenta

Objective: Compare giant ragweed control of Storen to other Syngenta corn herbicide standards and Resicore XL

Crop: Corn

Hybrid: NK9653-5222-EZ1

Weed species (pressure): giant ragweed

Herbicide Application(s): PRE – 5/4
POST – 6/2 (V4 corn)

For the full report see trial #23-ROK-CN15 in the [2023 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

syngenta

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| Trt # | Herbicide (rate acre ⁻¹) | Giant Ragweed (%) | | | | Yield ^b bu acre ⁻¹ |
|--|--|---------------------------------------|------------------|--------------|--------------|---|
| | | 5/25 | 6/2 | 6/15 | 10/17 | |
| 1 | Check Untreated | 0 | 0 | 0 | 0 | 33 b |
| Two-Pass – PRE (5/4) <i>fb</i> POST (6/2) | | | | | | |
| 2 | Acuron (3 qt) <i>fb</i> Roundup PM3 (28 fl oz) + Status (2.5 oz) + AMS ^c | 92 | 81 | 91 | 95 | 191 a |
| 3 | Storen (2.4 qt) + AAtrex (1.5 pt) <i>fb</i> Roundup PM3 (28 fl oz) + Status (2.5 oz) + AMS ^c | 85 | 76 | 91 | 87 | 187 a |
| 4 | Resicore XL (3 qt) + AAtrex (1.5 pt) <i>fb</i> Roundup PM3 (28 fl oz) + Status (2.5 oz) + AMS ^c | 92 | 66 | 89 | 90 | 194 a |
| 5 | Acuron (1.5 qt) <i>fb</i> Acuron (1.5 qt) + Roundup PM3 (26 fl oz) + AMS ^c | 87 | 69 | 88 | 91 | 199 a |
| 6 | Storen (1.2 qt) + AAtrex (0.75 pt) <i>fb</i> Storen (1.2 qt) + AAtrex (0.75 pt) + Roundup PM3 (26 fl oz) + AMS ^c | 82 | 72 | 88 | 87 | 191 a |
| 7 | Lumax EZ (1.5 qt) <i>fb</i> Acuron GT (3.75 pt) + AAtrex (0.5 pt) + NIS (0.25% v/v) + AMS ^c | 79 | 63 | 91 | 89 | 190 a |
| 8 | Resicore XL (1.5 qt) + AAtrex (0.75 pt) <i>fb</i> Resicore XL (1.5 qt) + AAtrex (0.75 pt) + Roundup PM3 (26 fl oz) + AMS ^c | 86 | 70 | 93 | 90 | 197 a |
| | | LSD ($\alpha=0.10$) | ns | ns | ns | ns |
| | | p value | 0.26 | 0.285 | 0.792 | 0.411 |
| | | | 24 | | | |
| | | | <0.001 | | | |

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

^cLiquid AMS (AMSOIL) applied at 2.5% v/v

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Plot pictures taken on 5/25
21 days after the PRE application

The number in the upper right-hand corner is the
average % giant ragweed control of 4 replications

21 days after PRE (5/25)

Untreated Check

0%



21 days after PRE (5/25)

PRE: 3 qt Acuron

92%



1

21 days after PRE (5/25)

PRE: 2.4 qt Storen + 1.5 pt atrazine 4L

85%



21 days after PRE (5/25)

PRE: 3 qt Resicore XL + 1.5 pt atrazine 4L

92%



**21 days after PRE (5/25)
PRE: 1.5 qt Acuron**

87%



21 days after PRE (5/25)

82%

PRE: 1.2 qt Storen + 0.75 pt atrazine 4L



21 days after PRE (5/25)

PRE: 1.5 qt Lumax EZ

79%



21 days after PRE (5/25)

86%

PRE: 1.5 qt Resicore XL + 0.75 pt atrazine 4L



Storen Giant Ragweed Control Comparisons

Janesville, WI 2023

Plot pictures taken on 6/2

29 days after the PRE application
The day of the POST application

The number in the upper right-hand corner is the
average % giant ragweed control of 4 replications

**29 days after PRE (6/2)
Untreated Check**

0%



29 days after PRE (6/2)
PRE: 3 qt Acuron

81%



29 days after PRE (6/2)

PRE: 2.4 qt Storen + 1.5 pt atrazine 4L

76%



29 days after PRE (6/2)

PRE: 3 qt Resicore XL + 1.5 pt atrazine 4L

66%



29 days after PRE (6/2)
PRE: 1.5 qt Acuron

69%



29 days after PRE (6/2)

PRE: 1.2 qt Storen + 0.75 pt atrazine 4L

72%



29 days after PRE (6/2)
PRE: 1.5 qt Lumax EZ

63%



29 days after PRE (6/2)

PRE: 1.5 qt Resicore XL + 0.75 pt atrazine 4L

70%



Storen Giant Ragweed Control Comparisons

Janesville, WI 2023

Plot pictures taken on 6/15

42 days after the PRE application
13 days after the POST application

The number in the upper right-hand corner is the average % giant ragweed control of 4 replications

42 days after PRE (6/15)

Untreated Check

0%



13 days after POST (6/15)

PRE: 3 qt Acuron *fb*

POST: 28 fl oz Roundup PowerMAX 3 + 2.5 oz Status + AMS

91%



13 days after POST (6/15)

PRE: 2.4 qt Storen + 1.5 pt atrazine 4L *fb*

POST: 28 fl oz Roundup PowerMAX 3 + 2.5 oz Status + AMS

91%



13 days after POST (6/15)

PRE: 3 qt Resicore XL + 1.5 pt atrazine 4L fb

POST: 28 fl oz Roundup PowerMAX 3 + 2.5 oz Status + AMS

89%



13 days after POST (6/15)

PRE: 1.5 qt Acuron *fb*

POST: 1.5 qt Acuron + 26 fl oz Roundup PowerMAX 3 + AMS

88%



13 days after POST (6/15)

PRE: 1.2 qt Storen + 0.75 pt atrazine 4L *fb*

POST: 1.2 qt Storen + 0.75 pt atrazine 4L + 26 fl oz Roundup PM3 + AMS

88%



13 days after POST (6/15)

PRE: 1.5 qt Lumax EZ fb

POST: 3.75 pt Acuron GT + 0.5 pt atrazine 4L + NIS + AMS

91%



13 days after POST (6/15)

PRE: 1.5 qt Resicore XL + 0.75 pt atrazine 4L fb

93%

POST: 1.5 qt Resicore XL + 0.75 pt atrazine 4L + 26 fl oz Roundup PM3 + AMS



Storen Giant Ragweed Control Comparisons

Janesville, WI 2023

Plot pictures taken on 10/17
Day of corn harvest

The number in the upper right-hand corner is the average % giant ragweed control of 4 replications

@Harvest (10/17)
Untreated Check

0%



@Harvest (10/17)

PRE: 3 qt Acuron *fb*

POST: 28 fl oz Roundup PowerMAX 3 + 2.5 oz Status + AMS

95%



@Harvest (10/17)

PRE: 2.4 qt Storen + 1.5 pt atrazine 4L *fb*

POST: 28 fl oz Roundup PowerMAX 3 + 2.5 oz Status + AMS

87%



@Harvest (10/17)

PRE: 3 qt Resicore XL + 1.5 pt atrazine 4L fb

90%

POST: 28 fl oz Roundup PowerMAX 3 + 2.5 oz Status + AMS



@Harvest (10/17)

PRE: 1.5 qt Acuron *fb*

POST: 1.5 qt Acuron + 26 fl oz Roundup PowerMAX 3 + AMS

91%



@Harvest (10/17)

PRE: 1.2 qt Storen + 0.75 pt atrazine 4L *fb*

87%

POST: 1.2 qt Storen + 0.75 pt atrazine 4L + 26 fl oz Roundup PM3 + AMS



@Harvest (10/17)

PRE: 1.5 qt Lumax EZ fb

POST: 3.75 pt Acuron GT + 0.5 pt atrazine 4L + NIS + AMS

89%



@Harvest (10/17)

PRE: 1.5 qt Resicore XL + 0.75 pt atrazine 4L fb

90%

POST: 1.5 qt Resicore XL + 0.75 pt atrazine 4L + 26 fl oz Roundup PM3 + AMS

